

CLASSIFICATION OF THE GALL-WASPS AND THE PARASITIC  
CYNIPOIDS, OR THE SUPERFAMILY CYNIPOIDEA. II.

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Subfamily IV. — Liopterinae.

1894. Liopterinae, Subfamily IV, Ashmead, Proc. ent. soc. Washington, vol. 3, p. 17.

This group was first recognized as a subfamily by the writer about ten years ago, and I am surprised therefore, to see that Dr. von Dalla Torre takes credit for it in Wytsman's *Genera Insectorum*, Family Cynipidae, received January 27, 1903. He, and some other writers, placed the group in the subfamily ANACHARINAE, but its resemblance to that subfamily is merely superficial, the attachment of the abdomen, the abdomen itself, and the antennae being quite different.

In the publication quoted above I suggested that the group was probably an ancient phylum of the Cynipidae whence originated some of the Chalcidoidea, CHALCIS, EURYTOMA, etc. Since the suggestion was made additional evidence supporting it has been found in the African genus OBERTHÜRELLA Saussure, occurring in Madagascar and Liberia, a genus belonging to this group, not mentioned by Dalla Torre or by Kieffer, and which has the hind femora slightly swollen and armed with a tooth beneath, similar to some chalcidoids.

TABLE OF GENERA.

1. Head and thorax coarsely rugose; marginal cell closed
  - Scutellum normal, not ending in a spine; hind femora unarmed . . . . . 2
  - Scutellum ending in a long, acute spine; hind femora armed with a strong tooth beneath, before the middle; ♀ antennae 13-jointed, ♂ 14-jointed. (Africa.) . . . . . Oberthürella Saussure.  
(Type *O. lenticularis* Sauss.)
2. Discoidal nervure interstitial with the median nervure; ♀ antennae 13-jointed, ♂ 14-jointed . . . . . Liopteron Perty.  
(Type *L. compressum* Perty.)
- Discoidal nervure *not* interstitial with the median nervure but issuing from the transverse median nervure; ♀ unknown, ♂ antennae 13-jointed, clavate  
Peras Westwood.  
(Type *P. niger* Westw.)

## Subfamily V. — Eucoilinae.

1861. Eucoilidae, Familia, Thomson, Öfvers. vet. akad. forhl. no. 9, p. 397.

1869. Eucoeloidae, Familie 4, Förster, Verh. zool.-bot. gesell. Wien, vol. 19, p. 329, 341.

This group is without doubt the largest and most widely distributed of any in the family Figitidae, the genera and species being exceedingly numerous although but little studied. As soon as the attention of entomologists is directed to the collecting of these obscure wasps and especially in tropical countries we may expect the discovery of many new genera, as is clearly shown by the new genera described here, most of which were recognized in a small collection of these insects taken by Mr. Herbert H. Smith in South America.

The subfamily is at once recognized by the cup-like elevation on the scutellum and by the hind tibiae having two apical spurs, characters not found in any other group.

## TABLE OF GENERA.

Females . . . . .	1
Males . . . . .	61
1. Metathorax normal, not produced, the abdomen at most subsessile — (Tribe II Eucoilinae.) . . . . .	3
Metathorax produced into a long neck, the length of the hind coxae, the abdomen abnormally petiolated, the petiole being long and slender, longer than the thorax. (Tribe I. Zamischini.) . . . . .	2
2. Body of abdomen not large, compressed; ♀ antennae long, 13-jointed, thickened toward apex, slender basally, the third joint shorter than the fourth. (Brazil.) Zamischus Ashmead, gen. nov. (Type <i>Z. brasiliensis</i> Ashm.)	
3. Base of abdomen <i>with</i> a hairy girdle . . . . .	15
Base of abdomen bare, <i>without</i> a hairy girdle	
Mesonotum <i>with</i> parapsidal furrows . . . . .	4
Mesonotum <i>without</i> parapsidal furrows . . . . .	9
4. Parapsidal furrows distinct to base of scutellum . . . . .	5
Parapsidal furrows <i>not</i> distinct to base of scutellum, converging and meeting <i>before</i> reaching the scutellum, thence to base of scutellum as a delicate carina; cup of scutellum large, marginal cell closed; antennae 13-jointed Eucoilidia Ashmead (Type <i>E. canadensis</i> Ashm.)	

5. Parapsidal furrows converging and meeting at the base of the scutellum . . . . . 6  
 Parapsidal furrows almost parallel, or some distance apart to the base of the scutellum . . . . . 7
6. Marginal cell *closed* along the front margin . . . . . Gronotoma Förster  
 (Type *G. sculpturata* Först.)  
 Marginal cell *open* along the front margin . . . . . Diglyphosema Förster  
 (Type *D. eupatorii* Först.)
7. Marginal cell *open* along the front margin . . . . . 8  
 Marginal cell *closed* along the front margin  
 Cup of scutellar large, rounded, its disk concave; antennae 13-jointed,  
 long, subfiliform, only slightly and gradually thickened towards apex  
 Microstilba Förster  
 (Type *M. bidentata* Förster)
8. Mesonotum with *five* carinae; cup of scutellum large, oval or rounded; antennae 13-jointed, filiform, joints 4-12 long oval. (South America.)  
 Tropideucoela Ashm., gen. nov.  
 (Type *T. rufipes* Ashm.)  
 Mesonotum *without* carinae; cup of scutellum large; antennae 13-jointed, without a distinct club . . . . . Disorygma Förster  
 (Type *D. divulgata* Först.)
9. Marginal cell *open* along the front margin . . . . . 10  
 Marginal cell *closed* along the front margin . . . . . 13
10. Scutellum normal, unarmed . . . . . 11  
 Scutellum abnormal, armed with *two* horns behind  
 Antennae 13-jointed, ending in a 6-jointed club  
 Dicerataspis Ashmead  
 (Type *D. grenadensis* Ashm.)
11. Antennae ending in an abrupt club, which is *three* or more jointed . . . . . 12  
 Antennae at most subclavate, without a distinct, abrupt club  
 Ectolyta Förster  
 (Type *Cothonaspis incessata* Thoms.)
12. Club of antennae 3-jointed . . . . . Triplasta Kieffer  
 (Type *Kleidotoma atrocoxalis* Ashm.)  
 Cup of antennae 5-jointed . . . . . Pentaplasta Kieffer  
 (Type *Pentacrita coxalis* Ashm.)
13. Antennae ending in a distinct, abrupt club . . . . . 14  
 Antennae without a distinct club . . . . . Erisphagia Förster  
 (Type *Eucoila curta* Gir.)

14. Club of antennae 5-jointed (rarely 6-jointed)  
 Apex of front wings entire . . . . . Psilosema Kieffer  
 = Cothonaspis Thomson Förster  
 (Type *C. pentatoma* Thoms.)  
 Apex of front wings emarginate or excised . . . . . Schizosema Kieffer  
 (Type *Eucoila emarginata* Hartig.)
15. Front wings at apex *emarginate* or *excised*; apical abscissa of the submarginal vein stout, quadrate, at the most only a little longer than thick . . . . . 16  
 Front wings at apex *entire*, never emarginate or excised although sometimes shortened and truncate; apical abscissa of the submarginal vein slender, not stout, always two or more times longer than thick . . . . . 23
16. Marginal cell *open* along the front margin . . . . . 17  
 Marginal cell *closed* along the front margin  
 Club of antennae 6- or 7-jointed . . . . . Leptopelina Förster  
 (Type *Eucoila longipes* Hartig.)
17. Antennae ending in a distinct, abrupt club . . . . . 18  
 Antennae filiform or subfiliform, *not* ending in a distinct club  
 Arhoptra Kieffer  
 (Type *Eucoila melanopoda* Cam.)
18. Club of antennae more than 3-jointed . . . . . 20  
 Club of antennae 3-jointed  
 Scutellum normal, *not* produced into a beak at apex . . . . . 19  
 Scutellum abnormal, produced into a beak or horn at apex; funicle joints  
 2-7 small, moniliform . . . . . Rhynchacis Förster  
 (Type *Cothonaspis niger* Hartig.)
19. Wings extending far beyond tip of abdomen . . . . . Kleidotoma Westwood  
 = Trirhoptrasema Kieffer<sup>1</sup>  
 (Type *K. psiloides* Westw.)
20. Club of antennae more than 4-jointed . . . . . 21  
 Club of antennae 4-jointed . . . . . Tetrarhoptra Förster  
 (Type *T. tetratoma* Först.)
21. Club of antennae more than 5-jointed . . . . . 22  
 Club of antennae 5-jointed . . . . . Pentacrita Förster  
 (Type *Eucoila cordata* Gir.)
22. Club of antennae 6-jointed . . . . . Hexacola Förster  
 (Type *Kleidotoma hexatoma* Thoms. = *Hexacola picea* Först.)

<sup>1</sup> Kieffer proposes this genus for my *Kleidotoma americana*, which, however, is a true *Kleidotoma*. I am probably responsible for the Abbé's error by describing through a *lapsus pennae* the marginal cell as being closed, when it is really more or less *open* along the fore margin.

- Club of antennae 7-jointed . . . . . Heptameris Förster  
(Type *Eucoila pygmea* Thoms.)
- 23. Wings abbreviated and much narrowed . . . . . 24  
Wings not abbreviated, fully developed and always extending far beyond the tip of the abdomen . . . . . 28
- 24. Club of antennae *less than* 7-jointed . . . . . 25  
Club of antennae 7-jointed . . . . . Nedinoptera Förster  
(Type *Eucoila holophila* Thomson)
- 25. Metapleura bare, *without* a hairy cushion . . . . . 26  
Metapleura covered *with* a hairy cushion  
Marginal cell *not* fully developed, the first abscissa of the radius alone present, or *longer* than the second when the latter is present  
Glauraspidia Thomson  
(Type *G. parva* Thomson.)  
Marginal cell fully developed, the first abscissa of the radius *shorter* than the second . . . . . Apistophyza Förster  
(Type *Eucoila microptera* Hartig.)
- 26. Wings extending at least to the middle of the abdomen, and usually *with* a marginal cell . . . . . 27  
Wings *not* extending beyond the base of the abdomen, and *without* a marginal cell; club of antennae 3-jointed . . . . . Aphyoptera Förster  
(Type *A. inustipennis* Förster)
- 27. Wings shorter than the abdomen, the marginal cell closed  
Agroscopa Förster  
(Type *A. helgolandica* Först.)  
Wings as long as the abdomen, the marginal cell present but *open* along the front margin; club of antennae 5-jointed . . . . . Aphiloptera Förster  
(Type *A. anisomera* Först.)
- 28. Antennae 11-, 12-, or 13-jointed . . . . . 29  
Antennae 14-jointed  
Wings bare, glabrous . . . . . Macrocereucoila Ashmead  
(Type *M. longicornis* Ashm.)  
Wings pubescent ciliate  
Antennae filiform, without a distinct club, the third joint longer than the fourth . . . . . Episoda Förster  
(Type *E. xanthoneura* Först.)
- 29. Antennae 11-jointed, *filiform* (South America.) Promiomoera Ashm., gen. nov.  
(Type *P. filicornis* Ashm.)  
Antennae 12- or 13-jointed

- Antennae 12-jointed . . . . . 30  
 Antennae 13-jointed . . . . . 32
30. Marginal cell *closed* along the front margin . . . . . 31  
 Marginal cell *open* along the front margin . . . . . Idiomorpha Förster  
 (Type I. melanocera Först.)
31. Cup of scutellum large, rounded, the whole disk impressed or concave; antennae filiform, the third joint the longest, or without an abruptly defined club  
 Miomorpha Förster  
 (Type M. aberrans Först.)  
 Cup of scutellum large oval, the whole disk not impressed, anteriorly flat, posteriorly with a fovea, with small punctures bordering the margin; antennae ending in an abrupt 7-jointed club . . . . . Paramiomorpha Ashmead  
 (Type P. heptoma Ashm.)
32. Marginal cell *closed* along the front margin . . . . . 33  
 Marginal cell *open* along the front margin . . . . . 50
33. Wings pubescent, the margins fringed or ciliated . . . . . 34  
 Wings bare, glabrous, not pubescent or ciliated  
 Antennae subfiliform not ending in a distinct club, although slightly thickened toward apex, the third joint a little longer than the fourth  
 Eucoila Westwood.  
 = Psilodora Förster  
 (Type E. crassinervis Westw.)
34. Abdomen not unusually compressed, the hypopygium not prominent; second joint of the flagellum usually *shorter* than the first, rarely as long or a little longer 36  
 Abdomen usually strongly compressed at the sides, the hypopygium most frequently prominent, plow-share shaped; second joint of the flagellum always distinctly *longer* than the first.  
 Scutellum ending in a spine . . . . . 35  
 Scutellum normal  
 Antennae long, without a distinct club . . . . . Hypolethria Förster  
 (Type Cothonaspis melanopectera Hartig.)
35. Antennae long, gradually thickened toward apex, the third joint only about two thirds the length of the fourth, 4 to 6 long, cylindrical (South America.)  
 Odonteucoila Ashmead, gen. nov.  
 (Type O. chapadae Ashm.)
36. Scutellum not ending in a spine . . . . . 37  
 Scutellum ending in a spine  
 Antennae long, gradually thickened towards apex, the third joint much shorter than the fourth . . . . . Odontoeucoila Ashmead

37. Flagellar joints *all* long and cylindrical, the last 7 or 8 joints, however, are sometimes stouter and form sometimes a more or less well defined club; first abscissa of the radius distinctly shorter than the second . . . . . 38  
 Flagellar joints *not* all long and cylindrical, some oblong oval, ellipzoidal, or moniliform . . . . . 40
38. Scutellum normal, the cup not modified into a carina . . . . . 39  
 Scutellum abnormal, the axillae acutely toothed posteriorly, the cup modified into a carina which is gradually dilated posteriorly, appearing tridentate; antennae long, filiform, the flagellar joints long, cylindrical, the first joint of the flagellum not quite so long as the second (South America.)  
 Trissodontaspis Ashmead, gen. nov.  
 (Type *T. rufipes* Ashm.)
39. Head and thorax finely coriaceous, not polished, the scutellum with two large oblong foveae at base, the cup narrowed ellipzoidal, connected with a carina anteriorly; antennae long, subfiliform slightly and gradually thickened toward apex, the flagellar joints long, cylindrical, the first shorter than the second, third, or fourth which are about equal, the fifth and beyond a little thicker and shorter. (South America.) . . . . . Dieucoela Ashmead, gen. nov.  
 (Type *D. subopaca* Ashm.)  
 Head and thorax smooth, shining, the scutellum with a large oval or round cup; first three joints of flagellum much elongated, and slenderer than the following . . . . . Aglaotoma Förster  
 (Type *Cothonaspis codrunus* Först.)
40. Mesonotum *without* furrows or lines . . . . . 41  
 Mesonotum *with* furrows or grooved lines.  
 Marginal cell rather short and broad, the second abscissa of the radius curved . . . . . Chrestosema Förster  
 (Type *C. erythrapum* Först.)
41. Cup of scutellum excavated, smooth in front, the anterior part closed, posteriorly with a fovea . . . . . 42  
 Cup of scutellum flattened, neither excavated nor margined, slightly arched; metathorax smooth; antennae filiform . . . . . Ganaspis Förster  
 (Type *G. mundata* Först.)
42. Cup of scutellum not extending over the tip of the scutellum; antennae usually *with* a more or less distinct club . . . . . 43  
 Cup of scutellum greatly elevated above the tip of the scutellum; antennae *without* a distinct club, usually long . . . . . Psichara Förster  
 (Type *Cothonaspis longicornis* Hartig.)
43. First and second abscissae of the radius not nearly equal in length, the first most frequently much shorter than the second . . . . . 44

- First and second abscissae of the radius equal in length or very nearly  
 Antennae usually with a 7- or 8-jointed club, the joints elongate, cylindrical, the first joint of the flagellum shorter than the second; cup of scutellum usually small . . . . . Rhoptromeris Förster  
 (Type *Cothonaspis eucera* Hartig.)
44. Marginal cell not short, much longer than wide . . . . . 45  
 Marginal cell rather short, hardly longer than wide, the second abscissa of the radius curved outwardly (South America.)  
*Zaeucoela* Ashmead, gen. nov.  
 (Type *Z. unicarinata* Ashm.)
45. Antennae *with* an abruptly defined club; cup of scutellum usually small, narrowed, ovate or ellipzoidal, rarely large oval . . . . . 46  
 Antennae *without* an abruptly defined club, filiform or nearly, or only slightly, incrassated toward apex . . . . . *Pseudoeucoila* Ashmead, gen. nov.  
 = *Eucoila* Auctore.  
 (Type *Cothonaspis trichopsila* Hartig.)
46. Club of antennae 7-jointed or less . . . . . 47  
 Club of antennae 8-jointed.  
 Flagellum with joints 2 and 3 very small, together scarcely as long as the first . . . . . *Dimicrostrophis* Ashmead  
 (Type *D. ruficornis* Ashm.)
47. Club of antennae 6-jointed or less . . . . . 48  
 Club of antennae 7-jointed.  
 Flagellum with joints 2 and 3 not small, neither much shorter than the first . . . . . *Heptamerocera* Ashmead  
 (Type *H. robusta* Ashm.)
48. Club of antennae 5-jointed or less . . . . . 49  
 Club of antennae 6-jointed . . . . . *Hexamerocera* Kieffer  
 (Type *Eucoila rufiventris* Gir.)
49. Club of antennae 5-jointed . . . . . *Pentamerocera* Ashmead.  
 (Type *P. angularis* Ashm.)  
 Club of antennae 4-jointed . . . . . *Tetramerocera* Ashmead  
 (Type *T. variabilis* Ashm.)
50. Marginal cell *closed* at base, the apical abscissa of the submarginal vein distinct . . . . . 51  
 Marginal cell *open* at base or confluent with the costal cell, the apical abscissa of the submarginal vein wanting  
 Second abscissa of the radius usually wanting or much abbreviated; scutellum at apex normal . . . . . *Adieris* Förster  
 (Type *A. reclusa* Först.)



- Second abscissa of the radius distinct; scutellum at apex usually emarginate and obtusely bidentate . . . . . Piezobria Förster  
(Type *P. bicuspidata* Först.)
51. Wings pubescent, ciliate . . . . . 52  
Wings bare, glabrous, not ciliate.  
Antennae 13-jointed . . . . . Lytosema Kieffer  
(Type *Eucoila guérinii* Dahlb.)
52. Abdomen not unusually compressed, the hypopygium not very prominent 53  
Abdomen much compressed, the hypopygium prominent plow-share shaped; antennae long, subfiliform, the joints elongate; cup of scutellum narrowed, ellipzoidal; cubitus in front wings more or less distinct Pilinothrix Förster  
(Type *P. designata* Först.)
53. Front wings with the cubitus *wanting* . . . . . 54  
Front wings with the cubitus *present*, distinct  
Antennae filiform, without a distinct club . . . . . Anectoclis Förster  
(Type *A. indagatrix* Först.)  
Antennae subclavate or clavate more or less thickened toward apex, the joints submoniliform . . . . . Cothonaspis Hartig  
= Trybliographa Förster  
(Type *Cothonaspis scutellaris* Hartig.)
54. Cup of scutellum normal, not ending in a spine . . . . . 55  
Cup of scutellum abnormal, ending in a long spine  
Acantheucoela Ashmead  
(Type *Cynips armatus* Cresson.)
55. Cup of scutellum not large . . . . . 56  
Cup of scutellum large oval or rounded  
Antennae clavate, the club not abruptly defined but more than 6-jointed . . . . . Diranchis Förster  
(Type *D. copulata* Först.)
56. Club of antennae distinct, abruptly defined, 3- to 7-jointed . . . . . 57  
Club of antennae not abruptly defined; cup of scutellum small, narrowed ellipzoidal; first two joints of flagellum very slender, shorter than the following . . . . . Hypodiranchis Ashmead  
(Type *H. hawaiiensis* Ashm.)
57. Club of antennae 6-jointed or less . . . . . 58  
Club of antennae 7-jointed . . . . . Heptaplasta Kieffer  
(Type *Heptamerocera aliena* Ashm.)
58. Club of antennae 5-jointed or less . . . . . 59

- Club of antennae 6-jointed . . . . . Hexaplasta Förster  
= Didyctium Riley  
(Type *Cothonaspis hexatoma* Hartig.)
59. Club of antennae 4-jointed or less . . . . . 60  
Club of antennae 5-jointed . . . . . Pentarhoptra Kieffer  
(Type *Eucoila tomentosa* Giraud)
60. Club of antennae 4-jointed . . . . . Tetraplasta Ashm., gen. nov.  
(Type *T. unica* Ashm.)  
Club of antennae 3-jointed . . . . . Eutrias Förster
61. Metathorax produced into a long neck the length of the hind coxae, the abdomen abnormally petiolated, the petiole long and slender, longer than the thorax  
Zamischus Ashm.  
Metathorax normal not produced, the abdomen subsessile.
- Abdomen at base bare, *without* a hairy girdle . . . . . 62  
Abdomen at base *with* a hairy girdle . . . . . 73
62. Mesonotum *with* parapsidal furrows . . . . . 63  
Mesonotum *without* parapsidal furrows . . . . . 68
63. Parapsidal furrows distinct to base of scutellum . . . . . 64  
Parapsidal furrows *not* distinct to base of scutellum, converging and meeting before reaching the base of the scutellum, thence to base as a delicate carina; marginal cell closed; antennae 15-jointed . . . . . Eucoilidea Ashmead
64. Parapsidal furrows converging and meeting at the base of the scutellum 65  
Parapsidal furrows almost parallel or some distance apart to the base of the scutellum . . . . . 67
65. Marginal cell *closed* along the front margin; cup of scutellum large; antennae 15-jointed, the first flagellar joint longer than the second, excised towards base  
Gronotoma Förster  
Marginal cell *open* along the front margin; antennae 15-jointed  
Diglyphosema Förster
66. Marginal cell *open* along the front margin . . . . . 67  
Marginal cell *closed* along the front margin  
Cup of scutellum large, rounded, its disk concave; antennae 15-jointed, the third joint longer than the second, strongly excised  
Microstilba Förster
67. Mesonotum *with* 5 carinae . . . . . Tropideucoela Ashmead  
Mesonotum *without* carinae . . . . . Disorygma Förster
68. Marginal cell *open* along the front margin . . . . . 69  
Marginal cell *closed* along the front margin . . . . . 71
69. Scutellum normal, unarmed . . . . . 70  
Scutellum abnormal, armed with two horns behind . . . . . Dicerataspis Ashmead

70. Unknown (♀ only known) . . . . . Triplasta Kieffer  
 Pentaplasta Kieffer  
 Ectolyta Förster
71. First joint of flagellum shorter than the fourth, the latter the stouter . . . . . 72  
 First joint of flagellum not longer than the fourth, the following slightly and gradually increasing in length . . . . . Erisphazia Förster
72. Apex of wings entire not emarginate . . . . . Psilosema Kieffer  
 Apex of wings emarginate . . . . . Schizosema Kieffer
73. Front wings at apex *emarginate* or *excised*; apical abscissa of the submarginal vein stout, quadrate, at the most only a little longer than thick . . . . . 74  
 Front wings at apex *entire*, never emarginate or excised, although sometimes shortened and truncate; apical abscissa of the submarginal vein slender, not stout, always two or more times longer than thick . . . . . 79
74. Marginal cell *open* along the front margin . . . . . 75  
 Marginal cell *closed* along the front margin . . . . . Leptopelina Förster
75. Scutellum normal, not produced into a beak at apex . . . . . 76  
 Scutellum abnormal, produced at apex into a beak or horn  
 Rhynchacis Förster
76. First joint of the flagellum not or scarcely longer than the second, rarely curved, and hardly as thick as the second . . . . . 77  
 First joint of the flagellum a little longer than the second, stouter and usually slightly curved, the following joints cylindrical, usually three or more times longer than thick and gradually but imperceptibly increasing in length to the penultimate . . . . . Kleidotoma Westwood
77. Joints of flagellum long, cylindrical, equal in length or very nearly, and at least four times as long as thick . . . . . Tetrarhoptra Förster  
 Joints of flagellum differently formed . . . . . 78
78. Flagellar joints 1 to 3 equal in length or very nearly, the first slightly curved, clavate, the apical joints not or rarely more than three times as long as thick  
 Pentacrita Förster  
 Flagellar joint 1 scarcely as long as the second or distinctly shorter, the following joints stouter, fully thrice as long as thick . . . . . Hexacola Förster  
 Unknown . . . . . Heptameris Förster
79. Wings abbreviated . . . . . 80  
 Wings fully developed . . . . . 83
80. Metapleura bare or at most very sparsely pubescent . . . . . 81  
 Metapleura clothed with a *dense* pubescence  
 Marginal cell incomplete, the second abscissa of the radius wanting or very short . . . . . Glauraspidia Thomson

- Marginal cell completely formed, the first abscissa of the radius shorter than the second . . . . . Apistophyza Förster
81. Wings reaching at least to the middle of the abdomen, and *with* a marginal cell . . . . . 82  
 Wings not reaching beyond the base of the abdomen, and *without* a marginal cell  
 Antennae 15-jointed, the first joint of the flagellum distinctly longer than the second, excised, the following not quite twice as long as thick  
 Aphyoptera Förster
82. Wings shorter than the abdomen, the marginal cell closed  
 Agroscopta Förster  
 Wings as long as the abdomen, the marginal cell open along the front margin, the first abscissa of the radius longer than the second  
 Aphiloptera Förster
83. Antennae 13- to 15-jointed . . . . . 84  
 Antennae 16-jointed, very long, the flagellar joints long, cylindrical  
 Wings glabrous, the marginal cell closed . . . . . Macrocereucoila Ashmead  
 (Type *M. longicornis* Ashm.)  
 Wings pubescent, the marginal cell closed . . . . . Episoda Förster
84. Antennae 15-jointed . . . . . 87  
 Antennae 13- or 14-jointed  
 Antennae 14-jointed . . . . . 85  
 Antennae 13-jointed  
 Flagellum long, filiform, the joints long, cylindrical, the first joint only about half as long as the second ; cup of scutellum large, rounded  
 Promiomoera Ashmead, gen. nov.  
 (Type *P. filicornis* Ashm.)
85. Marginal cell *closed* along the front margin . . . . . 86  
 Marginal cell *open* along the front margin . . . . . Idiomorpha Förster
86. Cup of scutellum large, rounded, the whole disc concave . . . . . Miomoera Förster  
 Cup of scutellum large oval the whole disc not concave, anteriorly flat, posteriorly with a fovea . . . . . Paramiomoera Ashmead
87. Marginal cell *closed* along the front margin . . . . . 88  
 Marginal cell *open* along the front margin . . . . . 101
88. Wings pubescent, the margins fringed or ciliated . . . . . 89  
 Wings bare, glabrous, *without* a marginal fringe  
 Antennae long, filiform, the joints cylindrical . . . . . Eucoila Westwood
89. First abscissa of the radius distinctly shorter than the second . . . . . 90  
 First abscissa of the radius as long as the second

- First joint of the flagellum distinctly shorter than the second  
 Hypolethria Förster
- First joint of the flagellum as long or nearly as long as the second  
 Rhoptromeris Förster
90. Scutellum normal, or at least not ending in a spine . . . . . 91  
 Scutellum ending in a spine . . . . . Odonteucoila Ashmead
91. First joint of the flagellum usually longer than the second, more rarely equal  
 in length, or very slightly shorter . . . . . 92  
 First joint of the flagellum very distinctly shorter than the second  
 Heptamerocera Ashmead
92. Scutellum normal, the cup not modified into a carina . . . . . 93  
 Scutellum abnormal, the axillae acutely toothed posteriorly, the cup modified  
 into a carina which is gradually dilated posteriorly, appearing tridentate  
 Trissodontaspis Ashmead
93. Head and thorax smooth and shining . . . . . 94  
 Head and thorax not smooth and shining, but finely coriaceous; scutellum  
 with two large foveae at base, the cup narrowed ellipzoidal, connected with  
 a carina anteriorly; antennae long, the joints long, cylindrical, the first joint  
 of the flagellum not longer or thicker than the second, the eighth and  
 beyond slightly shortening . . . . . Dieucoela Ashmead
94. First joint of the flagellum not greatly elongated, thickened, or strongly  
 curved . . . . . 95  
 First joint of the flagellum usually greatly elongated, much thickened and  
 curved . . . . . Aglaotoma Förster
95. Marginal cell short nearly as wide as long, the second abscissa of the radius  
 strongly curved outwardly; cup of scutellum very large . . . . . 96  
 Marginal cell not especially short, always much longer than wide; mesonotum  
 without furrows . . . . . 98
96. Mesonotum short, *without* furrows . . . . . 97  
 Mesonotum *with* two fine furrows abbreviated posteriorly and two very broad  
 lateral impressions shortened anteriorly . . . . . Chrestosema Förster
97. Mesonotum *with* a very delicate median carina; cup of scutellum very large  
 oval; first joint of the flagellum not longer than the second, the joints oblong oval,  
 about thrice as long as thick . . . . . Zaeucoela Ashmead, gen. nov.  
 (Type *Z. unicarinata* Ashm.)
- Mesonotum *without* a median carina; cup of scutellum large rounded, the  
 disk flat or slightly impressed; first joint of the flagellum longer than the  
 second (or rarely shorter and slenderer), the following joints oval or moniliform  
 hardly longer than thick or at most only about twice as long as thick, never  
 thrice as long as thick . . . . . Ganaspis Förster

98. Cup of scutellum normal . . . . . 99  
 Cup of scutellum overlapping the apex of the scutellum . . . . . Psichara Förster
99. First joint of the flagellum not longer than the second or only a little longer . . . . . 100  
 First joint of the flagellum very distinctly longer than the second, the following joints from  $2\frac{1}{2}$  to 3 times as long as thick . . . . . Hexamerocera Kieffer
100. Flagellar joints long, cylindrical, four or more times longer than thick . . . . . Pseudeucoila Ashmead  
 Flagellar joints at the most thrice as long as thick or even shorter . . . . . Pentamerocera Ashmead
101. Marginal cell confluent with the costal cell, the apical abscissa of the submarginal vein wanting . . . . . 102  
 Marginal cell *not* confluent with the costal cell, the apical abscissa of the submarginal vein always present . . . . . 103
102. Second abscissa of the radius wanting or not extending to the costa, the marginal cell therefore open at apex . . . . . Adieris Förster  
 Second abscissa of the radius distinct, reaching the costa; first joint of the flagellum more than twice the length of the second; the second and following moniliform . . . . . Piezobria Förster
103. Cubitus in front wings always more or less present or distinct . . . . . 104  
 Cubitus in front wings obliterated or wanting . . . . . 106
104. Wings pubescent, ciliate . . . . . 105  
 Wings bare, glabrous, not ciliate . . . . . Lytosema Kieffer
105. Cup of scutellum narrowed, ellipzoidal; first joint of flagellum very long, slightly curved, as long as 2 and 3 united, joints beyond cylindrical . . . . . Pilinothrix Förster  
 Cup of scutellum rather large oval or ovate; first joint of flagellum not longer than the second . . . . . Cothonaspis Hartig  
 = Trybliographa Förster
106. Cup of scutellum normal or not ending in a spine . . . . . 107  
 Cup of scutellum abnormal, ending in a strong spine . . . . . Acantheucoela Ashmead
107. Cup of scutellum not large, either ovate or ellipzoidal with a fovea posteriorly . . . . . 108  
 Cup of scutellum large broadly oval or rounded . . . . .  
 First joint of the flagellum subclavate at least as long as the second . . . . . Diranchis Förster